

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-6 (Canceled).

Claim 7 (New): A laser drive circuit comprising:

a plurality of laser diodes configured to output light having different wavelengths;

a switch configured to selectively connect a predetermined laser diode from said plurality of laser diodes to a laser diode drive supply circuit;

a photodiode configured to detect light emitted from said predetermined laser diode and output an electrical signal based on said detection;

a plurality of current-to-voltage conversion amplifiers operably linked to an output of said photodiode; and

an automatic power control circuit operably linked to outputs of said plurality of current-to-voltage conversion amplifiers and configured to output a feedback signal to said laser diode drive power supply circuit.

Claim 8 (New): The laser drive circuit according to claim 7, wherein

said automatic power control circuit is operably linked to an output of one of said plurality of current-to-voltage conversion amplifiers via another switch.

Claim 9 (New): The laser drive circuit according to claim 7, wherein

said plurality of laser diodes are configured to output light at different levels.

Claim 10 (New): The laser drive circuit according to claim 7, wherein
said plurality of current-to-voltage conversion amplifiers are configured to adjust
conversion resistance values.

Claim 11 (New): The laser drive circuit according to claim 10, wherein
said resistance values correspond to different power output levels of said plurality of
laser diodes.

Claim 12 (New): The laser drive circuit according to claim 7, wherein
said photodiode comprises a plurality of diodes and the output of said plurality of
diodes are respectively connected to inputs of said plurality of current-to-voltage conversion
amplifiers, and
a plurality of switch circuits are provided between outputs of said plurality of current-
to-voltage conversion amplifiers and an input of said automatic power control circuit.

Claim 13 (New): An optical pickup, comprising:
a plurality of laser diodes configured to output light having different wavelengths;
a switch configured to selectively connect a predetermined laser diode from said
plurality of laser diodes to a laser diode drive supply circuit;
a photodiode configured to detect light emitted from said predetermined laser diode
and output an electrical signal based on said detection;
a plurality of current-to-voltage conversion amplifiers operably linked in parallel and
configured to adjust conversion resistance values corresponding to respective different power
output levels of said plurality of laser diodes; and

a plurality of change-over switches provided at the input sides and output sides of said plurality of current-to-voltage conversion amplifiers, whereby one amplifier is selectively connected under change-over control of said plurality of change-over switches.

Claim 14 (New): An optical disc recording and/or reproducing apparatus, comprising:
a plurality of laser diodes configured to output light having different wavelengths;
a switch circuit for selectively connecting a predetermined laser diode from said plurality of laser diodes to a laser diode drive power supply circuit;
a photodiode configured to detect light emitted from said laser diode and convert the detected light into an electrical signal;
a plurality of current-to-voltage conversion amplifiers operably linked to an output of said photodiode; and
an automatic power control circuit operably linked to outputs of said current-to-voltage conversion amplifiers to output a feedback signal to said laser diode drive power supply circuit.

Claim 15 (New): The optical disc apparatus according to claim 14, wherein
said automatic power control circuit is operably linked to an output of one of said plurality of current-to-voltage conversion amplifiers via another switch.

Claim 16 (New): The optical disc apparatus according to claim 14, wherein
said plurality of laser diodes are configured to output light at different levels.

Claim 17 (New): The optical disc apparatus according to claim 14, wherein
said plurality of current-to-voltage conversion amplifiers are configured to adjust
conversion resistance values.

Claim 18 (New): The optical disc apparatus according to claim 17, wherein
said resistance values correspond to different power output levels of said plurality of
laser diodes.

Claim 19 (New): A method of driving a plurality of laser diodes in an optical disc
apparatus, comprising:

- selectively connecting a laser diode of a plurality of laser diodes having different
output wavelengths to a laser diode drive power supply circuit;

- driving said laser diode drive power supply circuit to allow the operably linked laser
diode to emit light;

- detecting light emitted from said laser diode and converting said detected light into an
electrical signal;

- providing said electrical signal to one of a plurality of current-to-voltage conversion
amplifiers;

- selectively connecting an output of said one of said plurality of current-to-voltage
conversion amplifiers to an automatic power control circuit;

- generating a feedback signal at the automatic power control circuit from said
electrical signal; and

- providing said feedback signal from the automatic power control circuit to said laser
diode drive power supply circuit.

Claim 20 (New): The method of claim 21 wherein said step of generating a feedback signal further comprises:

adjusting resistance conversion values of the plurality of voltage-to-current conversion amplifiers.

Claim 21 (New): The method of claim 20, wherein said step of adjusting resistance conversion values further comprises:

correspondingly adjusting the resistance values in accordance with different power output levels of said plurality of laser diodes.

Claim 22 (New): A laser drive circuit comprising:

means for emitting light of different wavelengths;

means for connecting said means for emitting to a means for driving said means for emitting;

means for detecting light emitted from said means for emitting, said means for detecting outputting an electrical signal based on said detection;

means for converting current-to-voltage, said means for converting being operably linked to said means for detecting; and

means for controlling power operably linked to outputs of said means for converting, said means for controlling power outputting a feedback signal to said means for driving.

Claim 23 (New): The laser drive circuit according to claim 22, wherein

said means for controlling power is operably linked to an output of said means for converting via a switch.

Claim 24 (New): The laser drive circuit according to claim 22, wherein
said means for emitting includes a plurality of laser diodes configured to output light
at different levels.

Claim 25 (New): The laser drive circuit according to claim 22 wherein
said means for converting is configured to adjust conversion resistance values.

Claim 26 (New): The laser drive circuit according to claim 25, wherein
said resistance values correspond to different power output levels of said means for
emitting.

Claim 27 (New): The laser drive circuit according to claim 22, wherein
said means for detecting comprises a plurality of diodes and the output of said
plurality of diodes are respectively connected to inputs of said means for converting, and
a plurality of switch circuits are provided between outputs of said means for
converting and an input of said means for controlling.